Teodora **Nićković**

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Programming languages

C/C++ ★★★★★
HTML/CSS ★★★★★
JavaScript ★★★★☆
Python ★★★☆☆
C# ★★☆☆☆
Java ★★☆☆☆
Haskell ★★☆☆☆
Scala ★☆☆☆☆

Work Experience

07/19 - 09/19 **Software Engineering Intern** You Tube

Worked in the Youtube Ads team on automatic video creation. Project involved processing different video and data signals to improve the creation of promotional videos. It was done entirely in C++.

07/18 - 09/18 **STEP Intern** Google

Worked with the Knowledge team for 12 weeks, as a part of Google's Summer Trainee Engineering Program. More specifically, built a tool to improve developer velocity for the engineers that work on the knowledge graph. I used mostly C++ for the server side of the project, and HTML/CSS with JavaScript, specifically the Polymer library, for the client.

01/17 - now **Math teacher** Educational center "Korak napred"

Tutoring students from grade 5 to grade 12, in group and individual settings. Preparatory classes for all math competition levels and for the Mathematical Grammar School entrance exam.

01/17 - 10/18 **Web and FR team** Student organisation "Omikron"

Organisation of multiple manifestations, including JobPrep and MatHackathon. My responsibilities included developing small organisational apps, both for the Omikron team and for the participants, and making web pages that handled applications forms and similar things. Occasionally also contacting and making deals with the sponsors.

06/15 - 08/15 **Software Developer Intern** COFA Games

Worked on and finished a promotional side project for the main project in the company at the time, the "Awakening of Heroes" game. The side project was an infinite 3D runner, done in Unity 3D using C#.

Projects

2021 **CHIMP photo editor**

A photo editor with complex features and effects built from scratch, using C++ and Qt.

2020 **Matfeterija**

Social network and online bookstore for students of the Faculty of Mathematics at the University of Belgrade. Made using the MEAN stack.

2020 **Tabu search paper**

Wrote a paper on tabu search as a part of a university course and implemented the solution to the capacitated facility location problem using tabu search as the optimization for genetic algorithm.

2020	**Minimal Clique Partitioning paper** Wrote a paper on minimal clique partitioning as a part of a Computational Intelligence university course. Implemented and compared various solutions that use genetic algorithms with different optimizations.
2019	**Space tractor** An OpenGL 3D infinite runner.
2019	**Data mining paper** Predicting job satisfaction of developers based on the StackOverflow 2017 developer survey.
2015	**Jumpy Game** C# infinite jumper game (reminiscent of Icy Tower). Everything, including graphics, made from scratch.

Education

2016 - now	**Faculty of Mathematics**	University of Belgrade, Serbia

- Current GPA: 9.2/10

- Currently attending the second semester of year four (ends in July 2021).

- Classes taken so far: Statistics (**R**), Artificial intelligence (**Python**), Database Programming (**C/SQL**), Data Research 1 (**Python**), Programming paradigms (**Python, Haskell, Scala**), Probability, Translation of programming languages (**Python, Bash**), Computer graphics (**OpenGL**), Relational databases (**SQL**), Introduction to numerical mathematics (**Matlab**), Calculus 2, Introduction to Algorithms and Data Structures (**C++**), Geometry, Operating Systems (**C**), Web and Internet Technology (**HTML/CSS, JS, jQuery**), Calculus 3, Algebra 1, Construction and analysis of algorithms (**C++**), Object-oriented Programming (**Java**), The Basics of Astronomy, Discrete Structures 1, Linear Algebra and Analytic Geometry, Programming 1 (**C**), Technical and Scientific Writing (**Latex**), Introduction to Organization and Architecture of Computers 1 (**Assembly**), Calculus 1, Discrete Structures 2, Zetetics - Critical Reasoning, Programming 2 (**C**), Introduction to Organization and Architecture of Computers 2 (**Assembly**).

Mathematical Grammar School   Belgrade, Serbia
Main subjects: math, programming, physics.

February, 2021

Teodora Nićković